Claims:

1. An open flame resistant mattress comprising a fire barrier fabric at least partially enclosing a core of said mattress, said fire barrier fabric comprising a fire barrier layer and a thermally insulating layer, said fire barrier layer and thermally insulating layer independently comprising at least one char-forming flame-retardant fiber.

2. An open flame resistant mattress according to claim 1, wherein said mattress resists an open flame under conditions of a full-scale open flame test.

3. An open flame resistant mattress according to claim 2, wherein said full-scale open flame test is California TB 603.

4. A method for reducing flammability of an article comprising filling materials, said method comprising at least partially enclosing the filling materials with a fire barrier fabric comprising a fire barrier layer and a thermally insulating layer, said fire barrier layer and thermally insulating layer independently comprising at least one char-forming flame-retardant fiber, whereby flammability of the article is reduced.

5. A method according to claim 4, wherein said article is selected from mattresses, mattress foundations, upholstered furniture, transportation seating systems, health care seating systems and fire-protective apparel.

6. A method according to claim 4, wherein said article is a mattress or mattress foundation.

7. A method according to claim 4, wherein flammability of said article is determined according to a fire safety test protocol.

8. An open flame resistant article comprising filling materials, said article comprising a fire barrier fabric at least partially enclosing the filling materials, said fire barrier fabric comprising a fire barrier layer and a thermally insulating layer, said fire barrier layer and thermally insulating layer independently comprising at least one char-forming flame-retardant fiber.

9. An open flame resistant article according to claim 8, wherein open flame resistance of said article is determined in accordance with California TB 117.

10. An open flame resistant article according to claim 8, wherein at least one of said fire barrier layer and said thermally insulating layer comprises at least one structure-providing char-forming flame-retardant fiber.

11. An open flame resistant article according to claim 8, wherein said at least one char-forming flame-retardant fiber is selected from para-aramid fibers, meta-aramid fibers, fiberglass, melamine fibers, poly-benzimidazole fibers, polyacrylonitrile fibers, novoloid fibers, pre-oxidized fibers, carbon fibers, modacrylic fibers, flame-resistant rayon fibers, flame-retardant viscose fibers, wool fibers, and flame-retardant treated cotton fibers.

12. An open flame resistant article according to claim 8, wherein said at least one char-forming flame-retardant fiber is selected from para-aramid fibers, modacrylic fibers, flame-retardant viscose fibers, fiberglass and blends thereof.

13. An open flame resistant article according to claim 8, wherein said at least one char-forming flame-retardant fiber comprises para-aramid fibers.

14. An open flame resistant article according to claim 8, wherein said at least one char-forming flame-retardant fiber comprises a blend of para-aramid and modacrylic fibers.

15. An open flame resistant article according to claim 8, wherein said at least one char-forming flame-retardant fiber comprises a blend of para-aramid and flame-retardant viscose fibers.

16. An open flame resistant article according to claim 8, wherein said thermally insulating layer comprises a blend of flame-retardant viscose and modacrylic fibers.

17. An open flame resistant article according to claim 10, wherein said at least one structure-providing char-forming flame-retardant fiber is selected from para-aramid fibers, meta-aramid fibers, fiberglass, melamine fibers, poly-benzimidazole fibers, polyacrylonitrile fibers, novoloid fibers, pre-oxidized fibers, and carbon fibers.

18. An open flame resistant article according to claim 10, wherein said at least one structure-providing char-forming flame-retardant fiber is selected from para-aramid fibers, fiberglass and blends thereof.